SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG <u>06I-0906-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 303E & 303F Bldg





Cover Page

Page 1 of 7

Report Identification Number: 06I-0906-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303F0 J451

Payroll#: 8C104



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
27 Feb 2006	J115M3	06I07351	NMAM 7300M	G0620013	G WIPE
27 Feb 2006	J10TM3	06I07352	NMAM 7300M	G0620013	G WIPE
27 Feb 2006	J115M6	06I07353	NMAM 7300M	G0620013	G WIPE
27 Feb 2006	J115M4	06I07354	NMAM 7300M	G0620013	G WIPE
27 Feb 2006	J115M5	06107355	NMAM 7300M	G0620013	G WIPE

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Name: Joanna C. Sanchez

Title: Chemist

Date: March 06, 2006





Case Narrative Page

Report Identification Number: 06I-0906-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303F0 J451

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General Set Information: There are 5 samples in set 06I-0906-01, 4 samples in set 06I-0907-01 and 7 samples in set 06I-0908-01 that were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of ± 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

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Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of ± 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: Two samples in this batch were replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination (μ g/L)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

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Miscellaneous Comments: None





Report Page

Report Identification Number: 06I-0906-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303F0 J451

Payroll#: 8C104

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl		Cadmiun µg/sampl		Lead μg/sample	e
J115M3	06I07351	02 Mar 2006	0.018		5.2		1200	
J10TM3	06I07352	02 Mar 2006	<0.01	U	0.94		22.	
J115M6	06I07353	02 Mar 2006	< 0.01	U	< 0.07	U	<2.	U
J115M4	06107354	02 Mar 2006	<0.01	U	< 0.07	U	<2.	U
J115M5	06I07355	02 Mar 2006	< 0.01	U	< 0.07	U	<2.	U
	0.	01	0.	07		2.		
R	equired Detecti	on Limit (RDL)						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 06I-0906-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R303F0 J451

Payroll#: 8C104

Batch ID: G0620013

	QC				Parent		Percent	Relative Percent
QC Sample ID	Type_	Analyte	Units	Result	Result	Target	Rec.	Diff.
BL-242015-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-242015-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-242015-1	MB	Lead	μg/sample	ND	NA	NA	NA	NA
QC-242015-1	LCS	Beryllium	μg/sample	11.1	NA	10.0	111.	NA
QC-242015-1	LCS	Cadmium	μg/sample	30.4	NA	30.0	101.	NA
QC-242015-1	LCS	Lead	μg/sample	98.8	NA	100	98.8	NA
QD-242015-1	LCSD	Beryllium	μg/sample	10.9	11.1	10.0	109.	1.78
QD-242015-1	LCSD	Cadmium	μg/sample	29.9	30.4	30.0	99.8	1.38
QD-242015-1	LCSD	Lead	μg/sample	97.8	98.8	100.	97.8	1.07

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

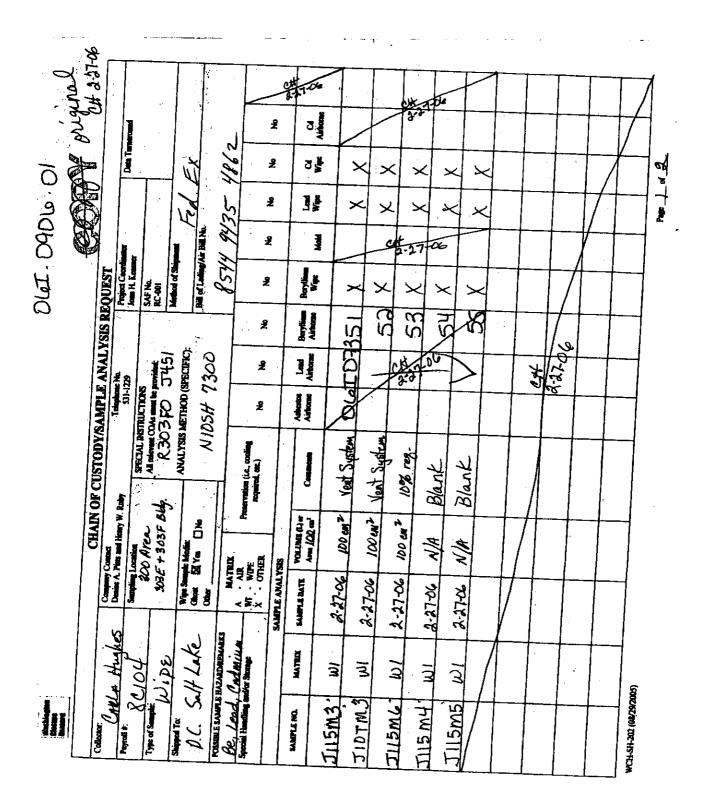
LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100



COC Page



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COC Page

CHV	IN OF CUSTODY/SAM	CHAIN OF EUSTODY/SAMPLE ANALYSIS REQUEST	
	SIGN / PRINT NAMES / USE MILITARY TIME	USE MILITARY TIME	
youle thighes/lapela thighes 21:	2)21/pc/1620	It CALL	2/21/26/1620
2.78	ot 1430		2-28-06 11930
A CONTRACTOR	2-28-06 /1600	Ed Ex	MILTER
for tx	3.1.06 lm)	Chorney by com	3-1-Do 1000
Hourson Pos 3	3-1-Dia (DO)		DARE/FILE
			Marine
	PATTALE .	Part Print	SATE TIBLE
	West-file		DATIVINE
2	Marte		MILTINE
LABORATORY Received By SECTION			DATE / TIME
REVIEWED BY: ADOLLOS 1924	PERTINGN NAME	DATE: 3.1 C	9
WCH-SIH-202 (00/29/2005)			r. 2 4 3

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547

Enter on line below the first Sample Number from Page One:

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	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST												
CARLY Hughes Denise A. Pitts and Henry W. Ruby			Telephone No. 531-1229			Project Coordinator Joan H. Kessner			Data Turnaround				
Payroll#:		Sampling Lo	300 Area		SPECIAL INSTRUCTIONS All relevant COAs must be provided:		SAF No. RC-001						
Type of Sample: WiDE 303E+303F Blog.				SFO 3		!	Method of Shipp	nent	ed t	$=_X$			
D.C. Sulf Lake Ghost Signs Other			Yes 🔲 No	No NIDSH 7300			Bill of Lading/Air Bill No. 8544 9435 4862					·	
POSSIBLE SAMPLE F. Be Lead, Special Handling and	Padmium	MATI A - AIR WI - WII X - OTI	Pre PE	servation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No	99 G
		SAMPLE ANALY			1	 				l and	Cd	Cd	7
SAMPLE NO,	MATRIX	SAMPLE DATE	VOLUME (L) or Area <u>IOO</u> cm ²	Comments	Asbestos Airborne	Lend Airborne	Berylliu Airbon		Mold	Lead Wipe	Wipc	Airborne	18
J115M3	WI	2-27-06	100 cm²	Vent System				Х		Х	Χ		
JIDTM3	WI	2-27-06	100 cm²	Vent System Vent System 10% reg.				X	e	X	Х		
J115M6	WI	2-27-06	100 cm²	10% reg.		25		X	2.27	Х	X	م م	SE .
J115 M4	W!	2-27-06	N/A	Blank	ļ	Se		X	8/	X	Х		8
J115m5	WI	2-27-06	NA	Blank				X		X	X		
					ļ	.					V	<u> </u>	
						24					U		
	 					2-27-0	6						
								FIELD	SAM	PLEC	OPY		

J115M3	3
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									
SIGN / PRINT NAMES / USE MILITARY TIME									
Carla Hugh	us/CARLA Hughes 2/	27/06/1620	Locked Cabinet 300 Area, 3746 Bldg., RM/6	2/27/06/1620					
Reinspended 6x-Stered	Chin Schilly 2.28	DATE/THE	RZ Steffler R.J. S.	DATE/TIME 2-28-06 / 1430					
RZ Steffle	c 12 Steffel	WKH 2-28-06 /1600	Fed Ex	DATE / TIME					
		DATE / I	Dyrama:	DATE/TIME					
Rehapembat By/Steeps		DATE/TME	Broked ByTames.	DATE/TIME					
Relanguished By/Senred		DATE / TIME	Remind By Band	DATE / TIME					
Retempedant Dy/Sweed		DATE / TRE	Remined By/Remed:	DATE / TIME					
Reimprished By/Vierral		DATE / TIME	Retrived By/Morest.	DATE / TRAE					
Reimperhed By/Surred		DATE/THE	Restrict By/Danis	DATE/TIME					
Reimpathof By/Storus		DATE/TIME	Bacaived Dy/Bared	DATE / TIME					
LABORATORY SECTION	Received By	Title		DATE / TIME					
REVIEWED BY:		PRINT/SIGN NAME	DATE:						

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